

We can design and plan networks, cables, transformers, sub-stations and power plants of wind and solar projects using both technical and economic criteria.

If you have requirements for reactive power / voltage control we can come up with a range of options and dimension the equipment appropriately for you. If harmonics can be an issue, we can determine the extent of the problem and dimension any required filter unit so that the relevant regulations can be met. Where system operators require grid code compliance testing we can act as your engineer and ensure that the tests are recorded, performed properly, and will not cause damage to plant or personnel. To plan your installation, we apply modern standard software. Based on a detailed model of your system, we can identify potential problems early and resolve at an early planning stage.

Our core competencies are:

- Studies to verify the suitability of assigned point of connection
- Design and planning of cable networks
- Planning of sub-stations (medium and high voltage)
- Design and planning of reactive power compensation equipment
- Harmonic analysis and filter design & testing
- Protection selectivity, protection checking and testing
- Offshore wind farms design
- Grid code compliance testing
- Planning in accordance with the relevant guidelines especially
 - VDE 4110/4120 Directive
 - TABs of network operators
 - Transmission & distribution codes
 - Connection rules of the TSO
 - FGW TR3, TR4 and TR8

An extract of our wind farm projects is shown in the following table:

Project	Power [MW]	Nominal voltage [kV]	Year of Commissioning	Grid operator	Comment
WP Beelen-Woeste	8,4	30	2024	Westnetz	New site
WEA Haltern Tannenber	5,6	30	2024	Stadtwerke Haltern	New site
WP Vreden-Ammeloe Expansion	8,2	110	2024	Westnetz	New site
WP Holtensen Hullersen	49,5	110	2024	avacon	New site
WP Südlohn-Oeding-Look	16,5	30	2024	Westnetz	New site
WP Holt	4,2	20	2024	S-H Netz	New site
WP Fuchsstadt	13,5	20	2023	Bayernwerk	New site
WP Merzig	8,4	20	2023	Netzwerke Merzig	New site
WEA Dorsten Lembeck	6	10	2023	Westnetz	New site
WP Koogwind	19,2	20	2023	S-H Netz	New site
WP Kuhs	16,8	20	2023	WEMAG	New site
WP Sillerup	13,2	20	2023	S-H Netz	New site
WP Sommerland	17,1	20	2023	S-H Netz	New site
WP Benfe I+II	13,8	10	2023	Westnetz	New site
WP Salzkotten Mäusebussard	6,8	20	2023	Westfalen Weser	New site
WP Groß- Pankow	22,8	20	2023	WEMAG	New site
WP Rapshagen 2+3	11,4	20	2023	e.dis	New site
WP Constantia-Forst II	28	110	2023	Avacon	New site
WP Schlangen „Hühnerberg“ u. „Montes Pullum“	8,4	20	2023	Westfalen Weser Netz	New site

WP Mosigkau-Libbesdorf-Quellendorf	15,4	15	2023	mitnetz	New site
WP Hamm-Weetfeld-Freiske	8,4	10	2023	EWV Hamm Netz	New site
WP Erwitte-Völlinghausen	22,8	30	2022	Westnetz	New site
WP Großenwiehe-Loftlund	8,4	20	2022	S-H Netz	New site
WP Nortorf II	13,2	20	2022	S-H Netz	New site
WP Lebus-Carzig	17,2	110	2022	e.dis	New site
Leeskow III	4,83	20	2022	mitnetz	New site
Auras-Süd III	21,8	20	2022	SW Cottbus	New site
Dörrwalde-Allmosen	25,86	20	2022	mitnetz	New site
Klein-Leine Nord IV	20,4	20	2022	mitnetz	New site
Seelow-Gusow	5,6	20	2022	e.dis	New site
Saidenberg	18,6	20	2022	mitnetz	New site
Wulkow	18	20	2022	Ngs Frankfurt Oder	New site
WP Ahlen Schäringer-Feld	9	30	2022	Westnetz	New site
WP Boxbach / Bad Laasphe	3,3	30	2022	Westnetz	Expansion
WP Brilon-Madfeld	21	110	2022	Westnetz	Repowering
WP Gescher-Tungerloh-Pröbsting-Süd	22,4	30	2022	Westnetz	New site
WP Gescher-Estern	3,6	30	2022	Westnetz	New site
WP Arfeld	13,2	10	2022	westnetz	New site
Warnsdorf	43,2	110	2021	e.dis	New site
Handewitt-Süd	3,6	20	2021	S-H Netz	New site
Brest	28	110	2021	avacon	Repowering
Dornbock	11,2	110	2021	mitnetz	New site
Trennewurth	4	20	2021	S-H Netz	New site
Roldisleben-Olbersleben	11,2	20	2021	TEN	New site
WP Haltern-Ennnenberg	11	30	2021	SW Haltern	New site
WP Rosendahl-Osterwick-Brock	8,7	10	2021	Westnetz	New site
WP Janneby	19,8	110	2021	S-H Netz	Rep. / New site
WP Burgberg	25,2	110	2021	Netze BW	New site
Warnsdorf	43,2	110	2021	e.dis	New site
Tüchten	5,3	20	2020	EWE	New site
Brunow-Kleeste	4,2	20	2020	WEMAG	New site
Freiwalde Nord I	4,2	20	2020	mitnetz	New site
Kölsa	13,65	20	2020	mitnetz	New site
WEA Haltern-Westwind	3,6	30	2020	SW Haltern	New site
WEA Haltern-Sebbel	3,6	10	2020	SW Haltern	New site
WP Gescher-Büren	6,7	30	2020	Westnetz	New site
WP Gescher-Hochmoor	8,4	30	2020	Westnetz	New site
WP Gescher-Tungerloh-Pröbsting-Nord	4,2	30	2020	Westnetz	New site
WP Uetze "Immenberg"	28,8	110	2020	avacon	Repowering
WP Uetze "Wilhemshöhe"	36	110	2020	avacon	Repowering
Drackenstein	16,5	20	2020	Albwerk	New site